* 0.
$$\omega = \delta_c \cdot b \cdot t + 1 = 25(0.25)(0.5 - 0.15) + 1 = 2.187$$

$$(T - t_5) \qquad (T - t_5) \qquad (T$$

*
$$\sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{k=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{k=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{k=1}^{n} \sum_{j=1}^{n} \sum_$$

$$+ W_{eq} = W_{u,s} + 1.4 \frac{20.W}{A rea - Voids} = 13.125 + \frac{14144.375}{15 * 18} = 14.1 |CN| lm^{2}$$

$$- (2 * 5 * 6)$$

$$- (2 * 5 * 6)$$

$$- (3 * 6)$$

$$- (4 * 6)$$

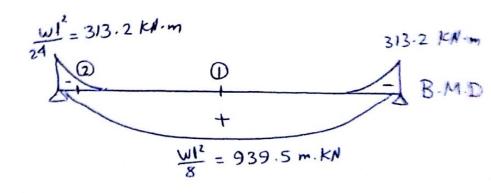
$$- (5 * 6)$$

$$- (5 * 6)$$

$$B = \frac{L_s^4}{L_s^4 + L_s^4} = \frac{6^4 + 5^4}{6^4 + 5^4} = 0.33$$

$$W_0 = 14.1 * 5 * 0.33 = 23.2$$

$$\beta = \frac{15^4}{18^4 + 15^4} = 0.33$$



$$C_{1}$$
 $R_{1} = \frac{wl}{2} = \frac{23.2 * 18}{2}$
 $= 208.8 * KA$

$$M_U = \frac{wi^2}{8} * R.F$$

$$R \cdot F = \frac{\sin \theta}{\sin \theta}$$

$$\theta = \frac{5}{7.5} *90 = 60^{\circ}$$

$$\mathbb{R} \cdot F = \frac{3\pi 60}{\sin 90} = 0.888$$

5. P. D

= 208 8 KN

$$\frac{d}{2} = 0.225 \, \text{m}$$

$$\frac{(9-0.225)}{9} = \frac{Qu}{208.8}$$

$$R = \frac{M_4}{R d^2} = \frac{813.6 \pm 10^6}{250 \pm (450)^2} = 1.5$$

$$P_{\text{CM}} = 0.24 \sqrt{\frac{f_{\text{CM}}}{6c}} = 0.24 \sqrt{\frac{25}{1.5}} = 0.98 \text{ MPa}$$

Factor

$$S = \frac{n \operatorname{Astr} \frac{fy}{g_k}}{q_{str} * b} = \frac{n \operatorname{Ad}_{r} * \frac{o}{1.05}}{1.07 * 250}$$

$$S = 117 \cdot \text{n A str}$$

$$A = \frac{\pi}{4} = \frac{\pi}{4}$$

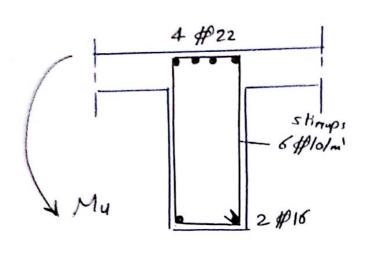
$$5 = 1.17 + 2 + .8. = 183.7 \text{ mm} \Rightarrow n = \frac{1000}{5}$$

Use 6#10/m' take 5=167 mm

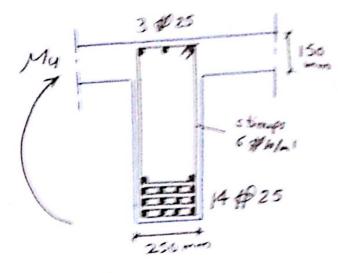
Sec 2-2

$$R = \frac{M_4}{6 \cdot d^2} = \frac{313.2 \pm 16}{250 \pm (450)^2} = 6$$

Scanned by CamScanner

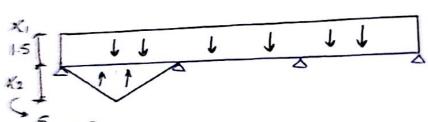


Sec 2-2



Sec 1-1

Design of Bz: Autogos



$$\frac{5}{2} = 2.5$$

$$\Gamma = 1.2 \rightarrow \text{Fom Chart} \Rightarrow \alpha = 0.769$$

$$\beta = 0.582$$

$$W_{m} = 1.4 + 3.44 + 13.125 + \frac{2}{3} + 2.5$$

+ 13.125 + 1.5

$$B = \frac{1}{2}$$

$$B = \frac{1}{2}$$

$$Area$$

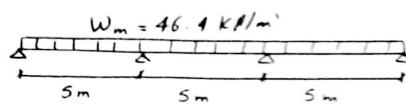
$$Area$$

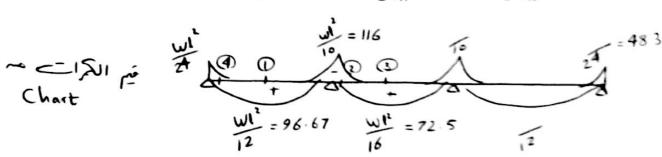
$$Area$$

Scanned by CamScanner

Load for shoor & Reactions:

Design for Flexure;





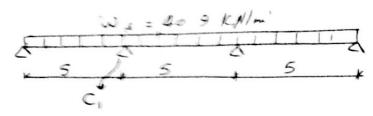
Sec 1-1

$$R = \frac{M_u}{B d^2} = \frac{96.67 * 10^6}{2650 * 1650)^2} = 0.086$$

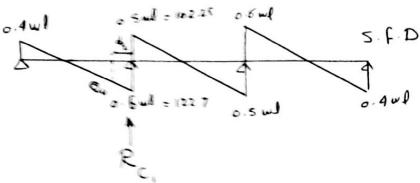
$$T - cover$$

$$Some$$

Design for Shear:



From Chart



$$\frac{122.7 \times 10^{3}}{250 \times 700} = 0.7 \text{ MPa}$$

[4] Load of Ci

العمود شایل م صد الکیمة و الاحاقه الکیم الاحزی اللاحزی اللاحزی

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R = Rc, + P, = 224.95 + 208.8 = 433.75 KN

: R = 433.75 KN

:. P_u = R * n * 1.1 = 433.75 * ا * 1.1 = 477.125 kN عالم يذ ڪر خلاف ذلك

[5] Design of Columna,

Pu = 0.35 Fay Ac + 0.67 Fy As

assum As = 0.01 Ac

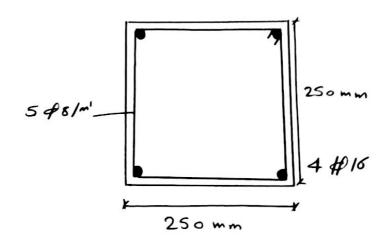
: 477.125 *10 = 0.35 * 25 Ac + 0.67 * 360 * 0.01 Ac

: Ac = 42745.5 mm

assume b = 300 mm = : t = Ac = 142.5 mm < b

→ Take Ac = b + t = 250 + 250 = 62500 mm

العويض مرة أحرك عن العادلة بـ ، A كمقيقية



$$A_{c} = \frac{\pi D^{2}}{4} \Rightarrow \text{life_i}$$

$$D = \frac{\pi D^{2}}{4}$$

$$D = \frac{\pi D^{2}}{4}$$

$$D = \frac{\pi D^{2}}{4}$$

و نکل عادی۔۔۔۔